



*Department of Electrical and Computing Engineering*

UNIVERSITY OF CONNECTICUT

**ECE 3411 Microprocessor Application Lab: Fall 2015**

## **Question VI**

There is 1 question in this quiz. There are 2 pages in this quiz booklet. Answer each question according to the instructions given.

You have **5 minutes** to answer the questions.

If you find a question ambiguous, be sure to write down any assumptions you make.

**Be neat and legible.** If we can't understand your answer, we can't give you credit!

**Write your name in the space below.** Write your initials at the bottom of each page.

**THIS IS A CLOSED BOOK, CLOSED NOTES QUIZ.  
PLEASE TURN YOUR NETWORK DEVICES OFF.**

Any form of communication with other students is considered cheating and will merit an F as final grade in the course.

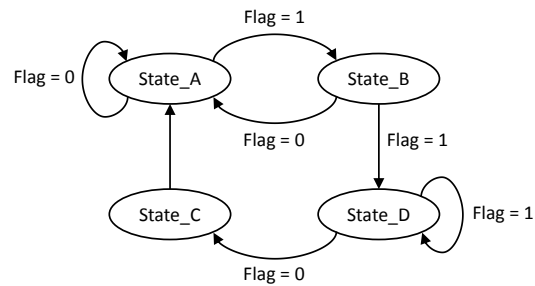
*Do not write in the box below*

<b>Total (xx/10)</b>

**Name:**

**Student ID:**

1. The figure below shows the state diagram of a simple Finite State Machine (FSM). The FSM has four states and an input called Flag. Complete the switch statement given below to implement these state transitions.



**Figure 1:** A Finite State Machine.

```
/* FSM Implementation */
switch (StopWatch_State)
{
    case State_A:

        break;
    case State_B:

        break;
    case State_C:

        break;
    case State_D:

        break;
}
```

End of Question

Please double check that you wrote your name on the front of the question.

**Initials:**